

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

Claims 1-6 (Cancelled).

7. (Currently Amended) A method of screening for a compound that decreases Alzheimer's disease, modulator of neurodegenerative diseases, or related diseases or disorders of one or more substances wherein the compound is a modulator of one or more substances selected from the group consisting of
- (i) a gene coding for KCNE4 protein as shown in SEQ ID NO: 1,
 - (ii) a transcription product of the gene coding for KCNE4 protein as shown in SEQ ID NO: 1, and
 - (iii) a translation product of the gene coding for KCNE4 protein as shown in SEQ ID NO: 1, and
 - (v) ~~a fragment, or derivative, or variant of (i) to (iii);~~
- said method comprising:
- (a) administering a test compound to a test animal which is predisposed to developing or has already developed symptoms of Alzheimer's disease ~~a neurodegenerative disease or related diseases or disorders in respect of the substances recited in (i) to (iv);~~
 - (b) measuring the activity and/or level of one or more substances recited in (i) to (iii) ~~(iv);~~
 - (c) measuring the activity and/or level of one or more substances recited in (i) or (iii) ~~(iv)~~ in a matched control animal which is predisposed to developing or has already developed symptoms of Alzheimer's disease ~~of a neurodegenerative disease or related diseases or disorders in respect to the substances recited in (i) to (iv) and to~~ which animal no such test compound has been administered;
 - (d) comparing the activity and/or level of the substance in the animals of step (b) and (c), wherein an alteration in the activity and/or level of substances in the test animal

indicates that the test compound is a modulator of Alzheimer's disease ~~said diseases~~
~~or disorders~~.

8. (Currently Amended) The method according to claim 7 wherein said test animal and/or said control animal is a recombinant animal which expresses KCNE4 protein as shown in SEQ ID NO: 1, ~~or a fragment, or a derivative, or a variant thereof~~, under the control of a transcriptional control element which is not the native KCNE4 gene transcriptional control element.

Claims 9-19 (cancelled).